

INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2004/000708

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 A61K 35/78

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A61K 35/78, A23L 1/00, A23L 2/38

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
KOREAN PATENTS AND APPLICATIONS FOR INVENTIONS SINCE 1975Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubMed on-line

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| Y | SHIBATA, M et al. 'Pharmacological studies on bamboo grass (1). Acute toxicity and anti-inflammatory and antiulcerogenic activities of water-soluble fraction(Folin) extracted Sasa albomarginata Makino et Shibata' In; Nippon Yakurigaku Zasshi, 1975; 71(5): 481-90 | 3, 4, 6, 7, 15, 18 |
| Y | OTANI, K et al. 'Histo-chemical studies on the anti-ulcer effect of bamboo grass in rats' In; Int. J. Tissue React. 1990; 12(6): 319-32 | 3, 4, 6, 7, 15, 18 |
| Y | FERNANDEZ, MA et al. 'Anti-inflammatory activity in rats and mice of phenolic acids isolated from Scrophularia frutescens' In; J. Pharm. Pharmacol. 1998; 50(10): 1183-6 | 11, 15, 18 |
| Y | LEE, KH et al. 'Antitumor agents. 49. tricin, kaempferol-3-O-beta-D-glucopyranoside and (+)-nortrachelogenin, antileukemic principles from Wikstroemia indica' In; J. Nat. Prod. 1981; 44(5): 530-5 | 11, 15, 18 |
| A | HU, C et al. 'Evaluation of antioxidant and prooxidant activities of bamboo Phyllostachys nigra var. Henonis leaf extract in vitro' In; J. Agric. Food Chem. 2000; 48(8): 3170-6 | 1-6, 8, 14-18 |
| A | ZHANG, Y et al. 'Comparision study on total flavonoid content and anti-free radical activity of the leaves of bamboo, Phyllostachys nigra, and Ginkgo biloba' In; Zhongguo Zhong Yao Za Zhi, 2002; 27(4): 254-7 | 1-6, 8, 14-18 |

 Further documents are listed in the continuation of Box C. See patent family annex.

| | |
|---|--|
| * Special categories of cited documents: | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |
| "A" document defining the general state of the art which is not considered to be of particular relevance | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone |
| "E" earlier application or patent but published on or after the international filing date | "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified) | "&" document member of the same patent family |
| "O" document referring to an oral disclosure, use, exhibition or other means | |
| "P" document published prior to the international filing date but later than the priority date claimed | |

Date of the actual completion of the international search

16 JUNE 2004 (16.06.2004)

Date of mailing of the international search report

17 JUNE 2004 (17.06.2004)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
920 Dunsan-dong, Seo-gu, Daejeon 302-701,
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|--------------------------|
| A | ANDRIAMBELOSON, E et al. 'Natural dietary polyphenolic compounds cause endothelium-dependent vasorelaxation in rat thoracic aorta' In; J. Nut. 1998; 128(12): 2324-33 | 9, 10, 14, 16, 17 |
| A | US 5098709 A (KANG, KJ), 24 March 1992 See abstract and claims | 3-8, 15, 18 |
| A | JP 2001-187744 A (TASUKU, O), 10 July 2001 See abstract and claims | 1, 2, 4, 6-8, 14, 16, 17 |
| A | JP 09-094081 A (DAIWA SEIBUTSU KENKYUSHO: KK), 08 April 1997 See entire document | 3, 4, 6, 7, 15, 18 |

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

The present invention relates to a composition for treating and preventing cardiovascular or blood circulation or inflammatory diseases. Claims 1-15 are directed to a pharmaceutical composition, and claims 16-18 are directed to a health care food.

Although claims 1-15 and 16-18 are relevant to the composition comprising the same active ingredient, there is no technical relationship among a pharmaceutical composition and health care food.

Hence, the application contains the following separate groups of inventions not so linked as to form a single general inventive concept (PCT Rule 13.1) :

- i) Claims 1-15
- ii) Claims 16-18

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any addition fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

KR2004/000708

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|--|------------------|-------------------------------|--------------------------|
| US 5098709 A | 24/03/1992 | US 4915946 A KR 9001844 B1 | 10/04/1990 24/03/1990 |
| JP 2001-187744 A | 10/07/2001 | NONE | |
| JP 09-094081 A | 08/04/1997 | JP 3488325 B2 | 19/01/2004 |